

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\
 Data File : VX006177.D
 Acq On : 26 Nov 2018 16:04
 Operator : JC/MD
 Sample : J6003-11 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AOC1-03R

Quant Time: Nov 27 02:28:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 08:15:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	323026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	483139	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	445040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220776	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	201646	53.87	ug/l	0.00
Spiked Amount			Recovery	=	107.74%	
35) Dibromofluoromethane	5.50	113	162593	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
50) Toluene-d8	8.71	98	587126	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.14	95	199605	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	

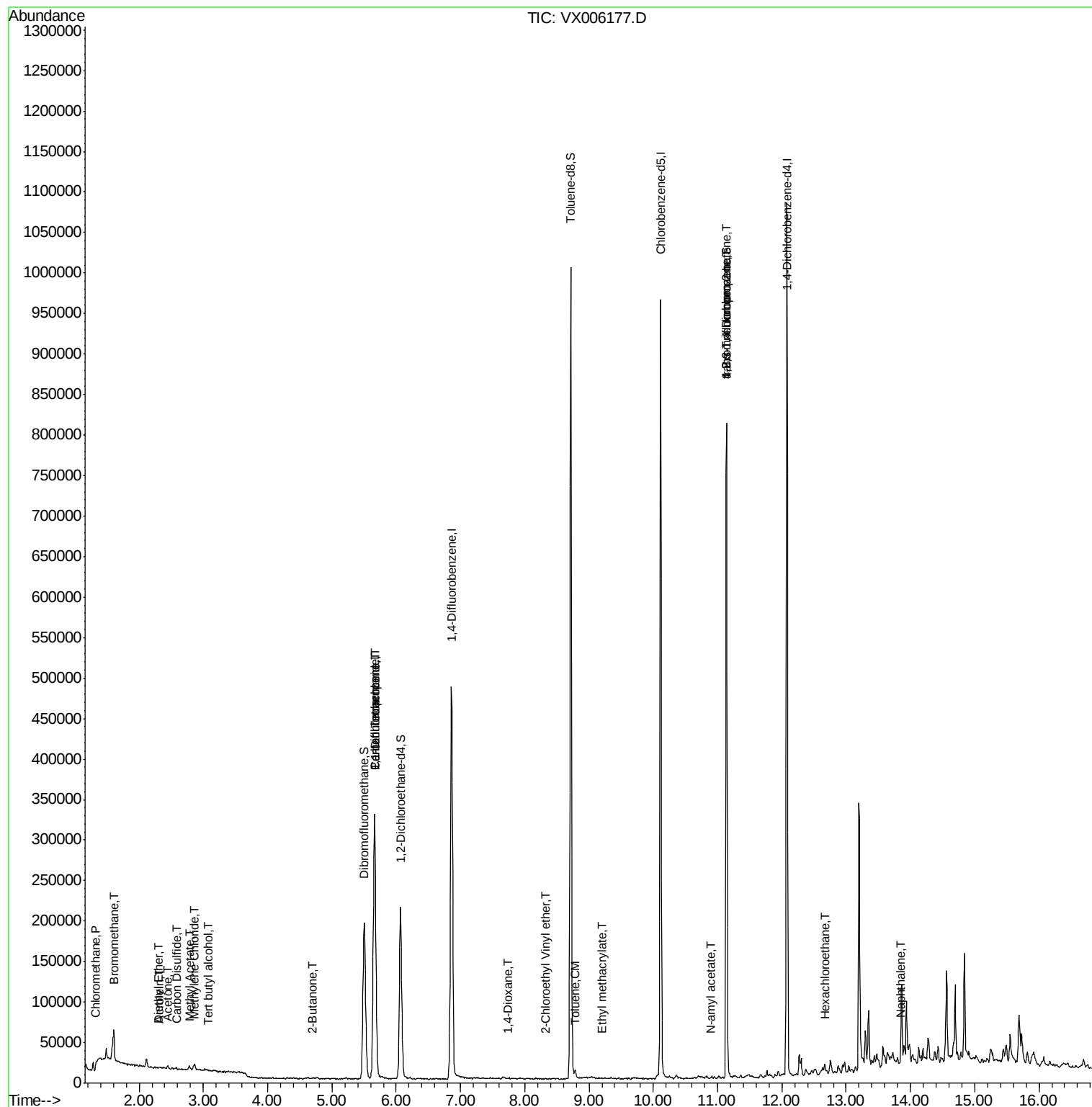
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	687	0.227	ug/l #	77
5) Bromomethane	1.62	94	368	3.859	ug/l #	30
6) Chloroethane	1.75	64	1276	Below Cal	#	43
8) Diethyl Ether	2.29	74	475	0.278	ug/l	77
11) Tert butyl alcohol	3.07	59	656	0.824	ug/l #	1
13) Acrolein	2.31	56	398	0.835	ug/l #	13
16) Acetone	2.45	43	4378	2.636	ug/l #	85
17) Carbon Disulfide	2.57	76	2154	0.342	ug/l #	79
18) Methyl Acetate	2.78	43	5068	1.190	ug/l #	73
20) Methylene Chloride	2.86	84	3378	1.002	ug/l	88
25) 2-Butanone	4.70	43	1479	0.480	ug/l #	67
36) 1,1-Dichloropropene	5.66	75	22794	5.186	ug/l #	52
38) Carbon Tetrachloride	5.67	117	29617	7.169	ug/l #	17
49) 1,4-Dioxane	7.74	88	29	0.295	ug/l #	1
52) Toluene	8.78	92	2633	0.329	ug/l	97
56) Ethyl methacrylate	9.19	69	206	2.901	ug/l #	38
58) 2-Chloroethyl Vinyl ether	8.33	63	209	6.789	ug/l	99
74) N-amyl acetate	10.89	43	337	2.240	ug/l #	42
76) 1,2,3-Trichloropropane	11.13	75	102518	22.555	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	102518	76.285	ug/l #	7
90) Hexachloroethane	12.67	117	856	0.447	ug/l #	4
95) Naphthalene	13.83	128	3617	0.248	ug/l #	74

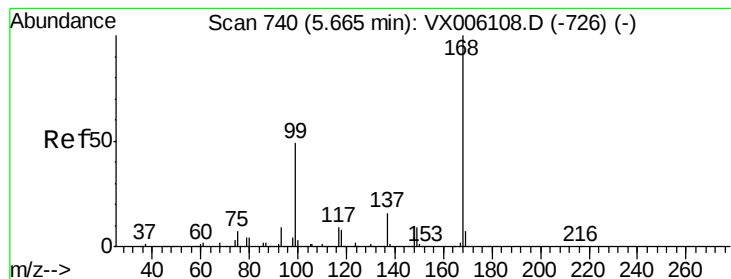
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

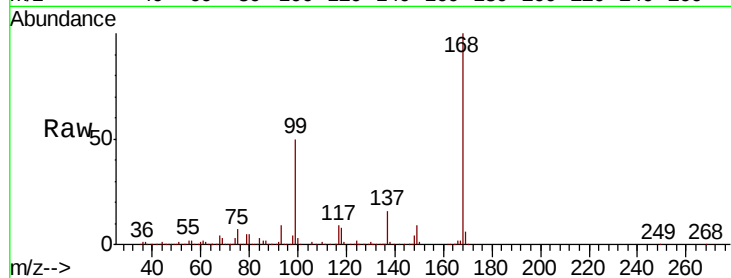
AOC1-03R

Tot Ion:168 Resp: 323026

Ion Ratio Lower Upper

168 100

99 50.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

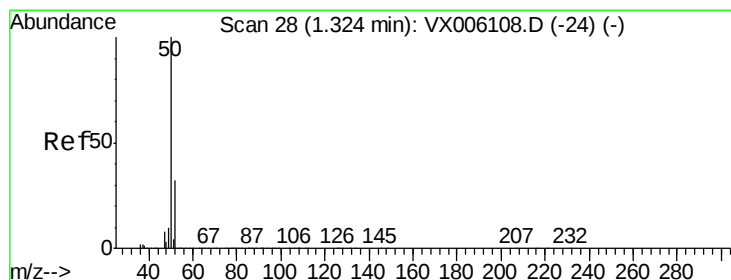
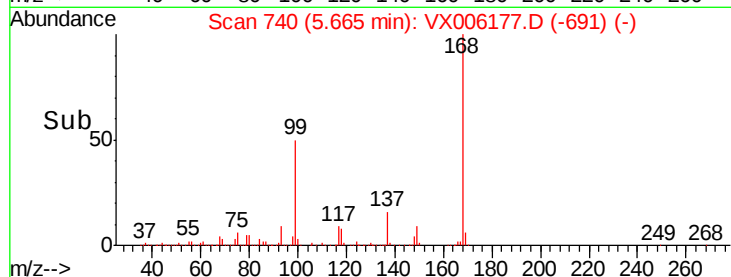
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.227 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006177.D

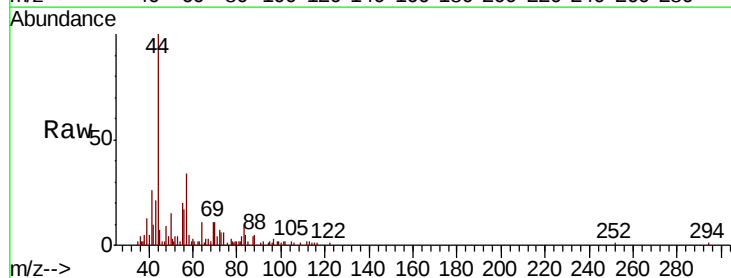
Acq: 26 Nov 2018 16:04

Tgt Ion: 50 Resp: 687

Ion Ratio Lower Upper

50 100

52 19.4 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

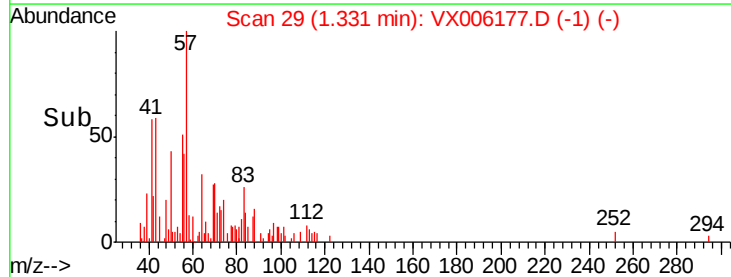
600

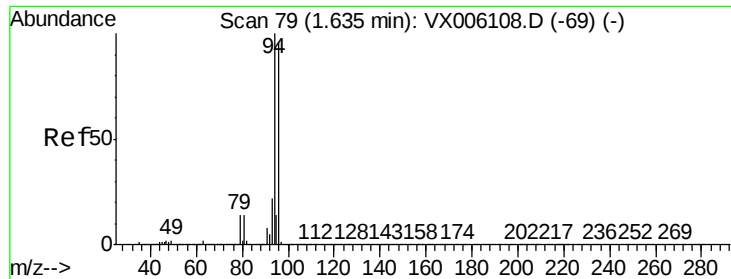
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 3.859 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.02 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

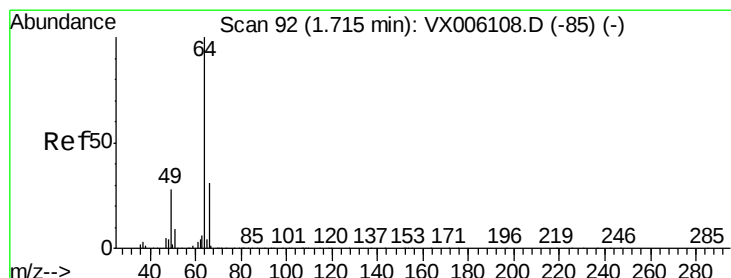
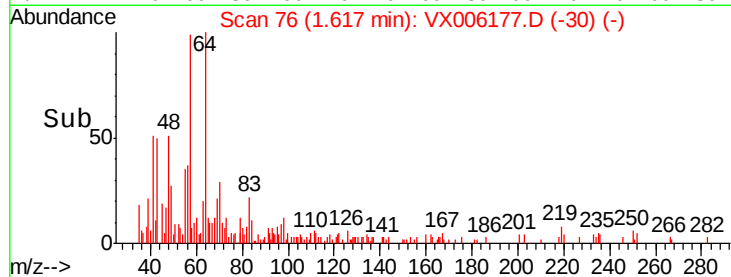
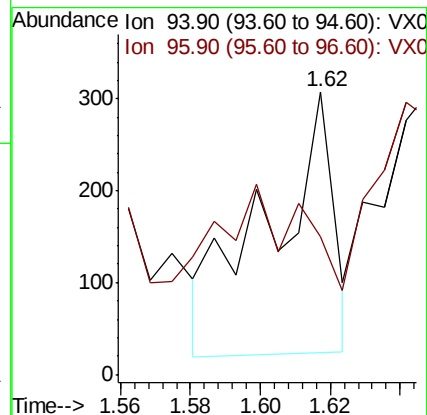
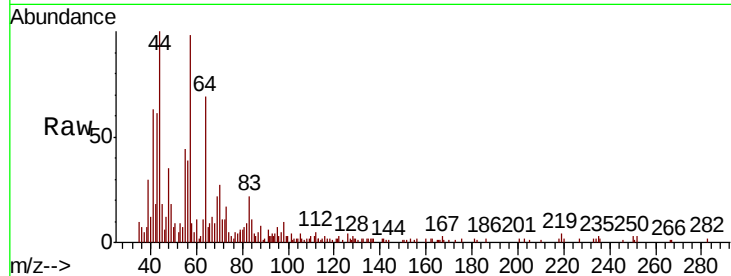
AOC1-03R

Tot Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 27.9 76.7 115.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX006177.D

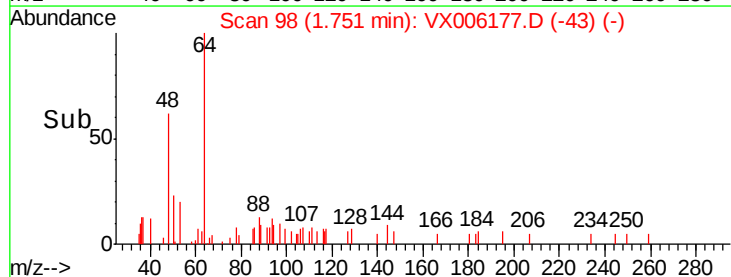
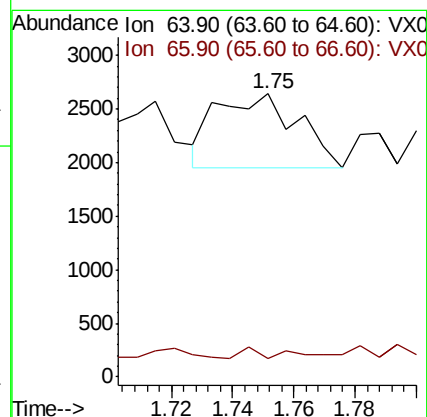
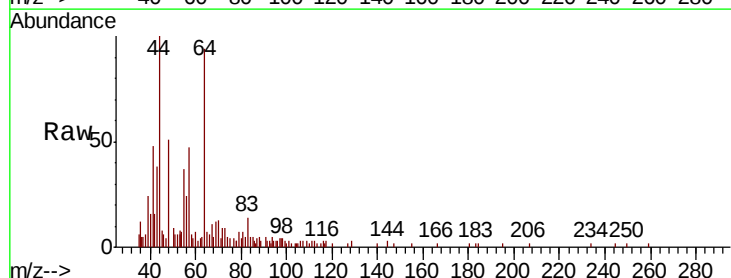
Acq: 26 Nov 2018 16:04

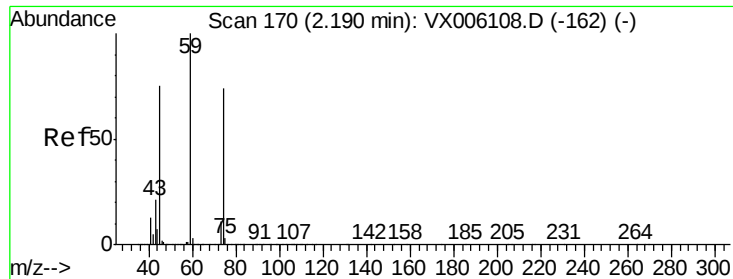
Tgt Ion: 64 Resp: 1276

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#





#8

Diethyl Ether

Concen: 0.278 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.10 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

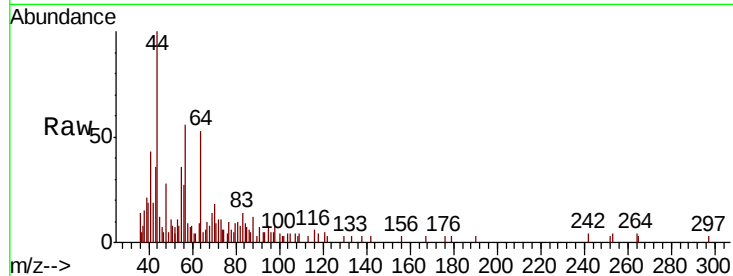
AOC1-03R

Tot Ion: 74 Resp: 475

Ion Ratio Lower Upper

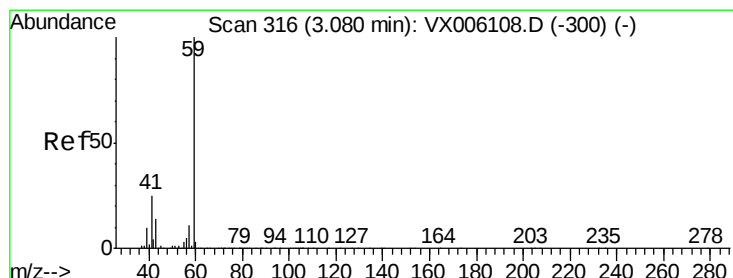
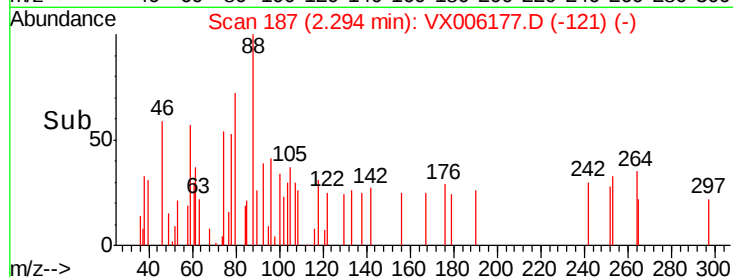
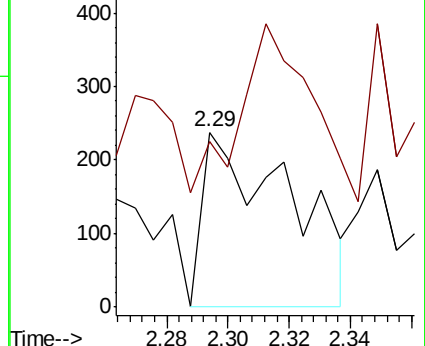
74 100

45 81.3 52.2 156.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.824 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006177.D

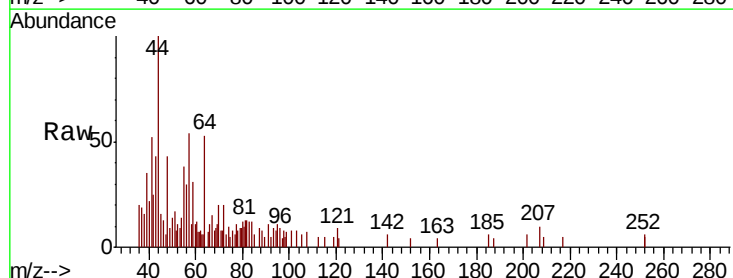
Acq: 26 Nov 2018 16:04

Tgt Ion: 59 Resp: 656

Ion Ratio Lower Upper

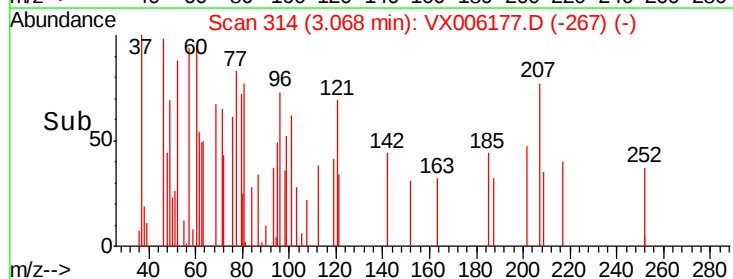
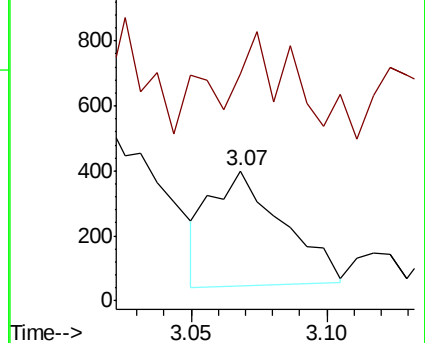
59 100

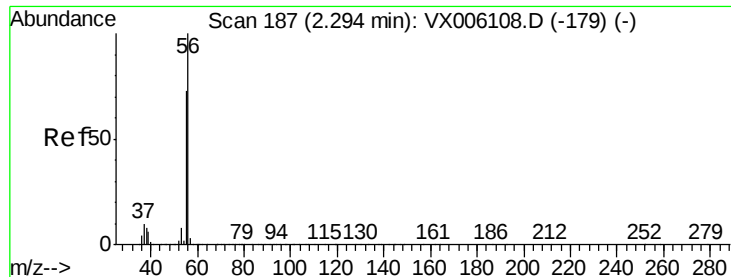
57 78.4 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.835 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

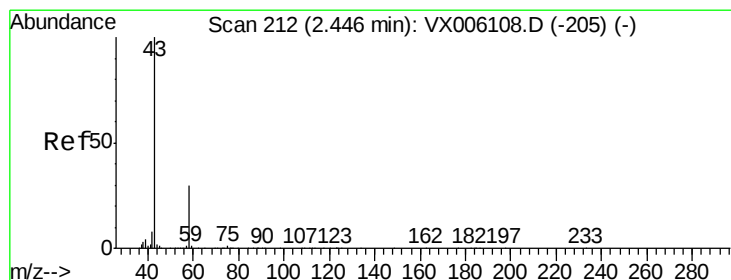
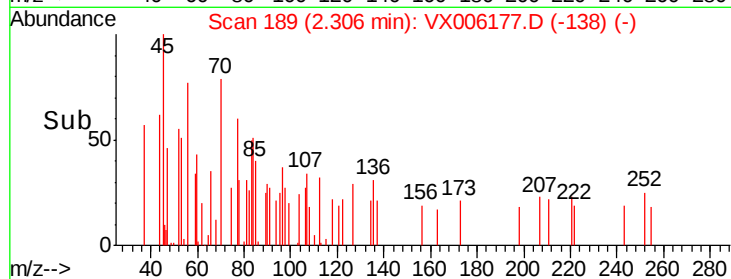
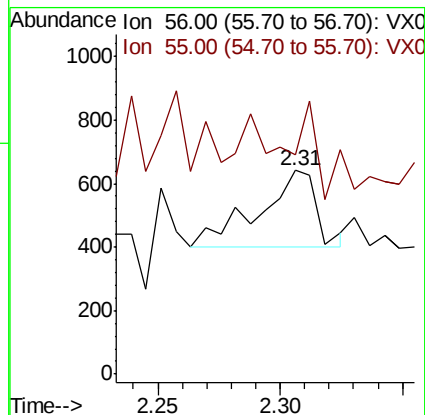
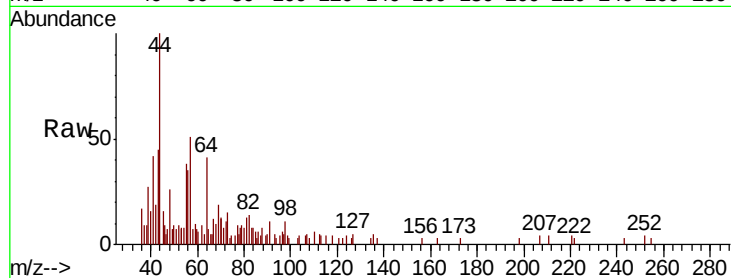
AOC1-03R

Tot Ion: 56 Resp: 398

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



#16

Acetone

Concen: 2.636 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006177.D

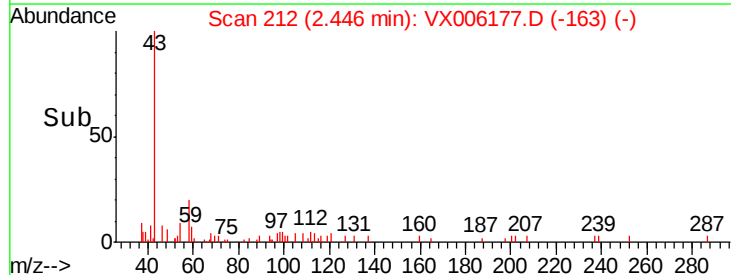
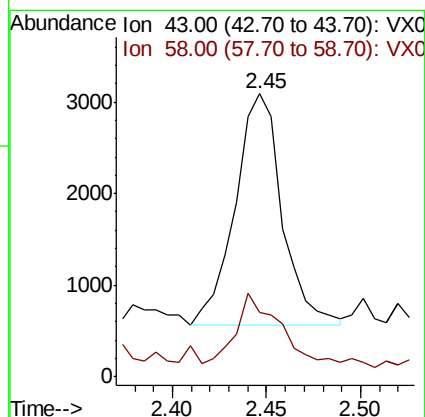
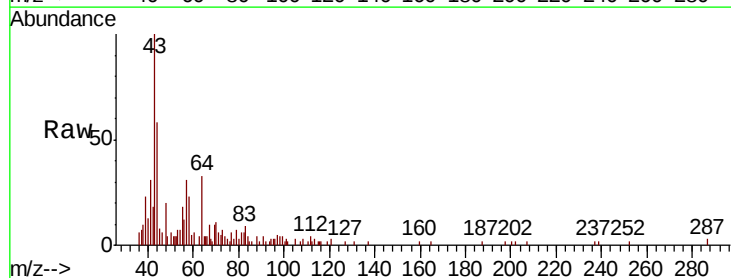
Acq: 26 Nov 2018 16:04

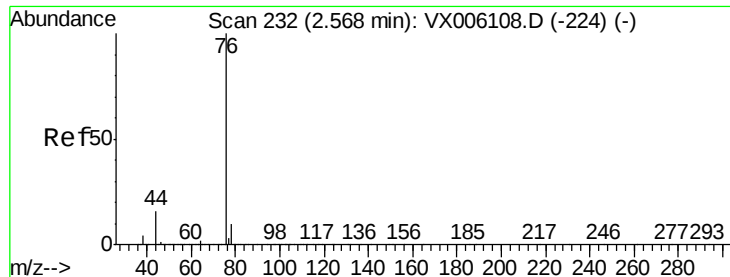
Tgt Ion: 43 Resp: 4378

Ion Ratio Lower Upper

43 100

58 21.5 23.8 35.8#





#17

Carbon Disulfide

Concen: 0.342 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampled :

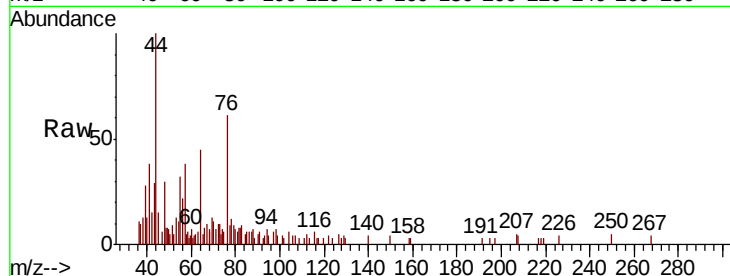
AOC1-03R

Tot Ion: 76 Resp: 2154

Ion Ratio Lower Upper

76 100

78 1.8 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

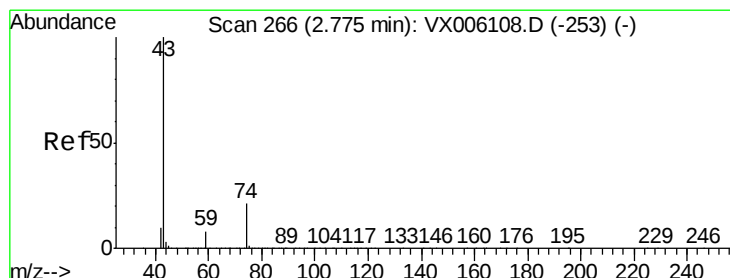
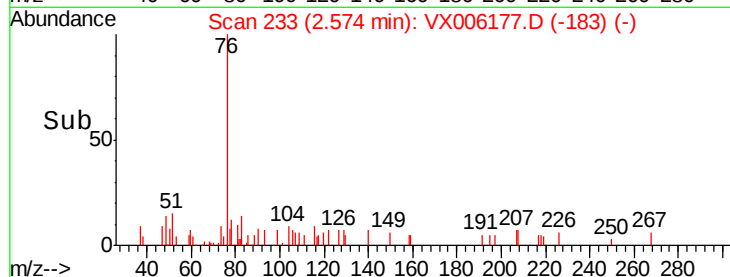
2.57

1000

500

0

Time-->



#18

Methyl Acetate

Concen: 1.190 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX006177.D

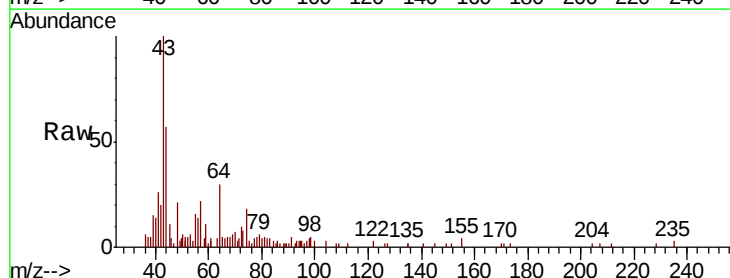
Acq: 26 Nov 2018 16:04

Tgt Ion: 43 Resp: 5068

Ion Ratio Lower Upper

43 100

74 34.4 17.3 25.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

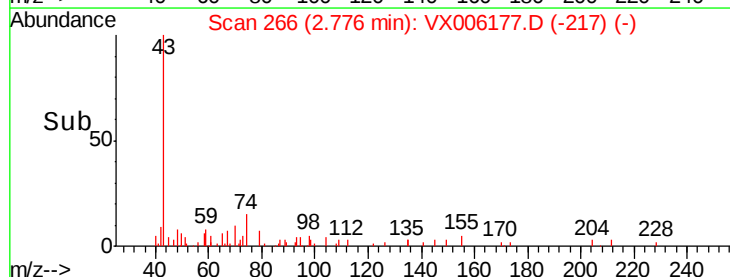
3000

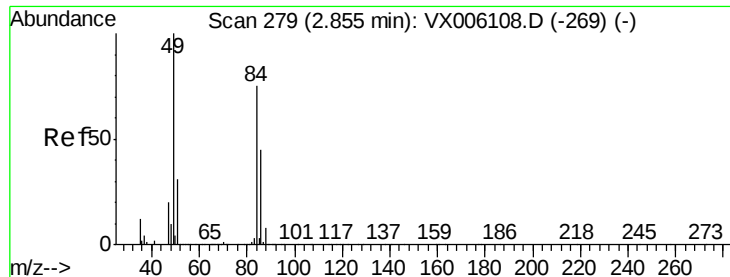
2000

1000

0

Time-->

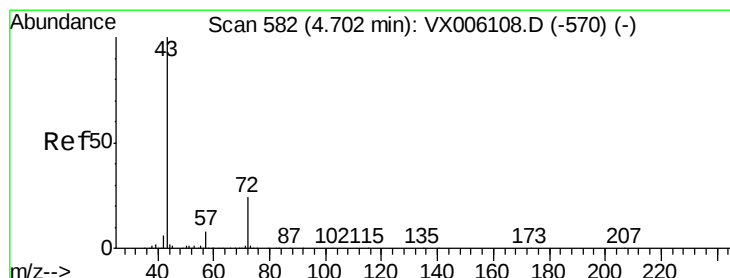
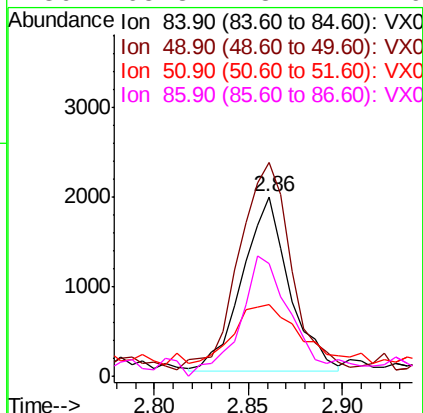
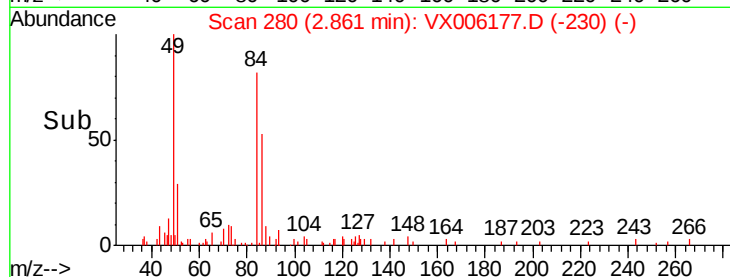
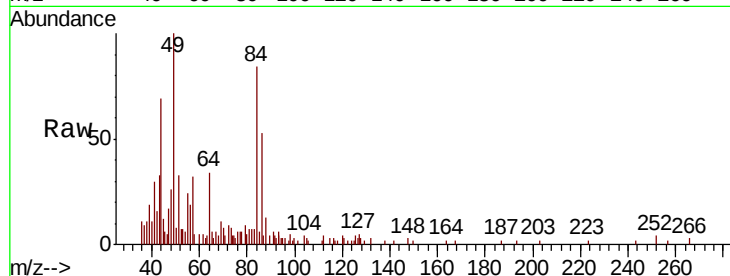




#20
Methvlene Chloride
Concen: 1.002 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX006177.D
Acq: 26 Nov 2018 16:04

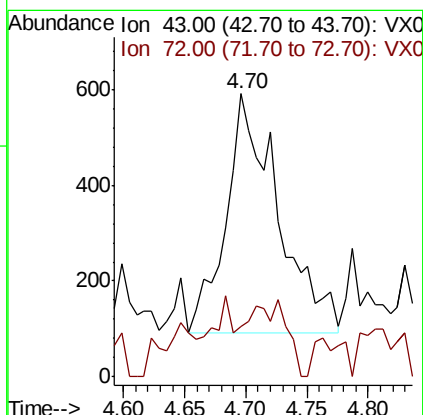
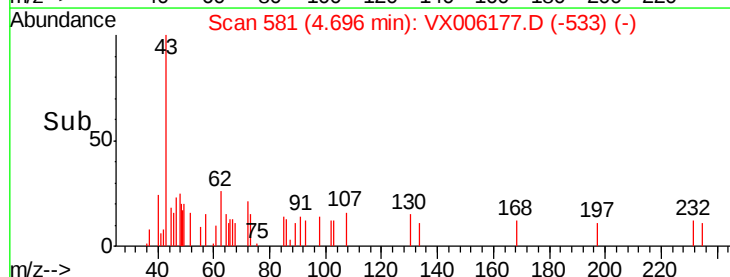
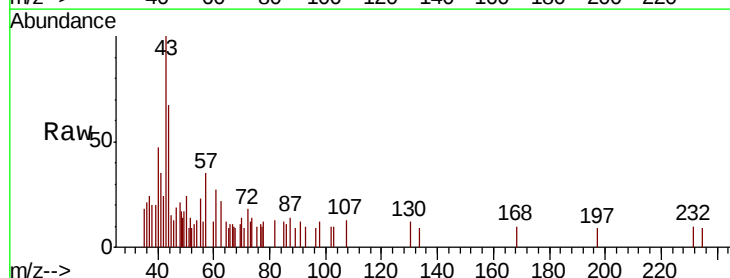
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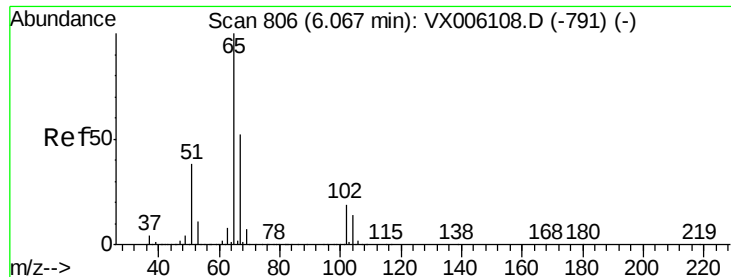
Tot Ion: 84 Resp: 3378
Ion Ratio Lower Upper
84 100
49 115.8 106.6 159.8
51 34.0 32.6 49.0
86 65.3 48.4 72.6



#25
2-Butanone
Concen: 0.480 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX006177.D
Acq: 26 Nov 2018 16:04

Tgt Ion: 43 Resp: 1479
Ion Ratio Lower Upper
43 100
72 7.6 19.2 28.8#

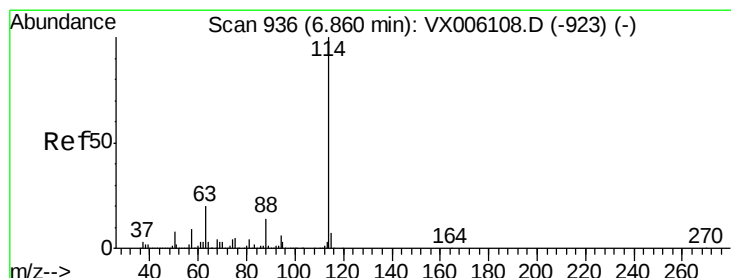
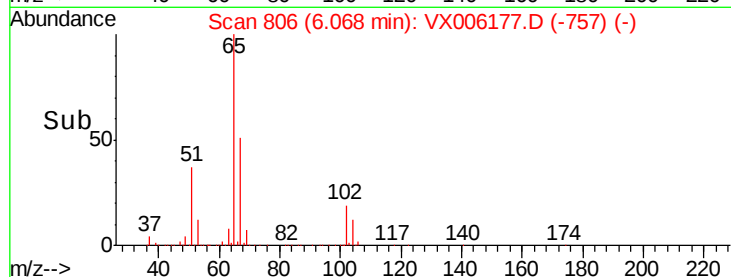
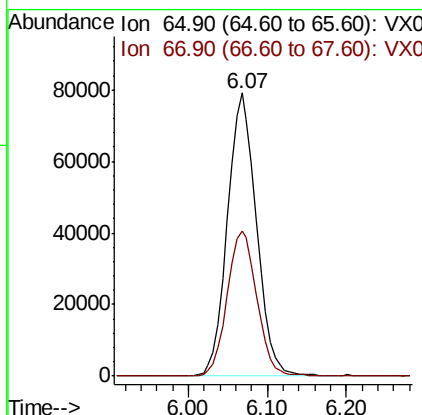
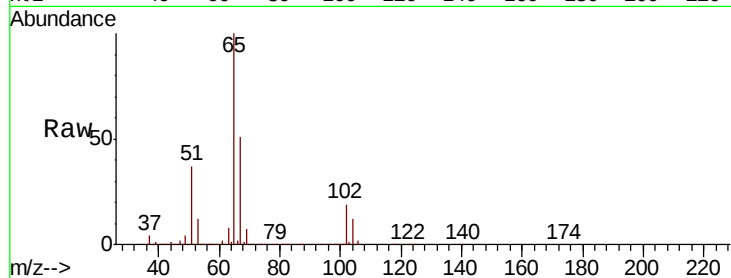




#33
 1,2-Dichloroethane-d4
 Concen: 53.872 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006177.D
 Acq: 26 Nov 2018 16:04

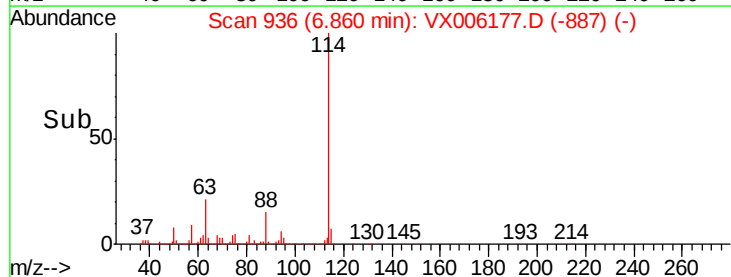
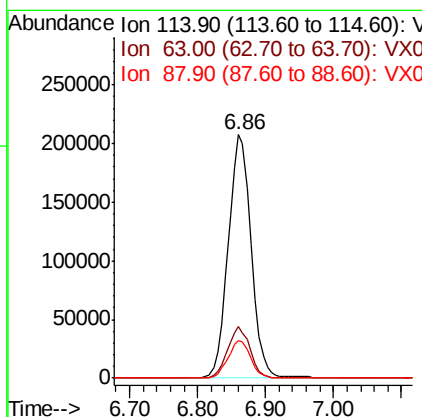
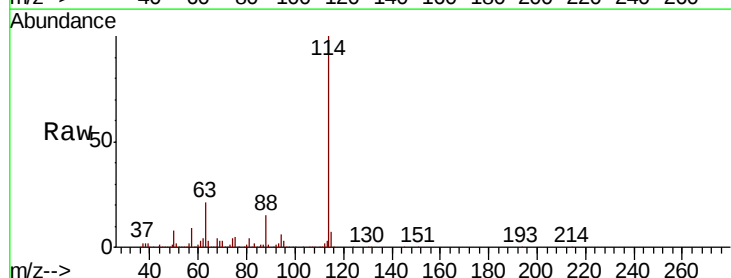
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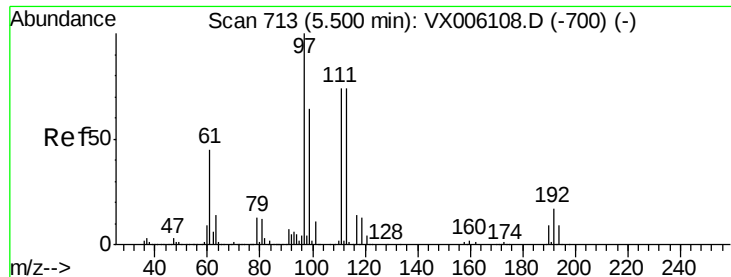
Tot Ion: 65 Resp: 201646
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006177.D
 Acq: 26 Nov 2018 16:04

Tgt Ion: 114 Resp: 483139
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.2
 88 15.3 0.0 28.6





#35

Dibromofluoromethane

Concen: 52.426 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

AOC1-03R

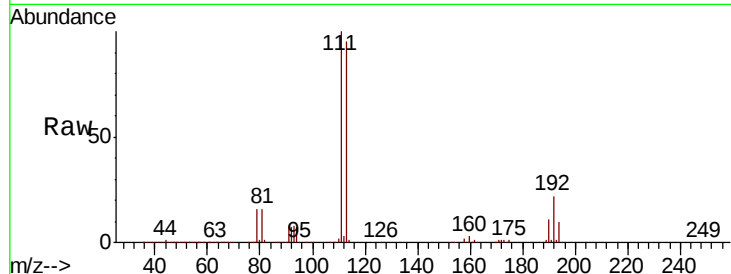
Tot Ion:113 Resp: 162593

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

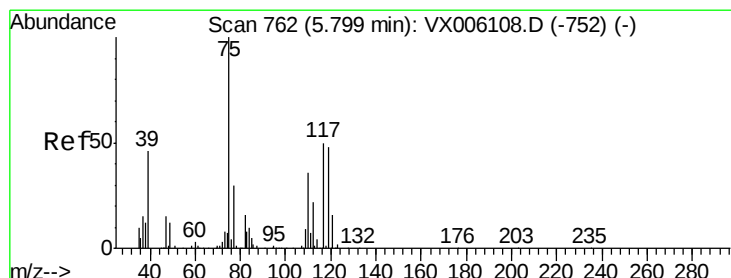
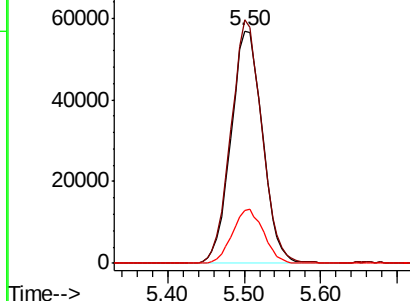
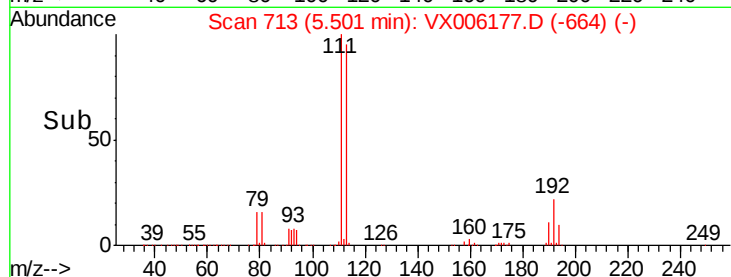
192 23.3 18.6 28.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.186 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

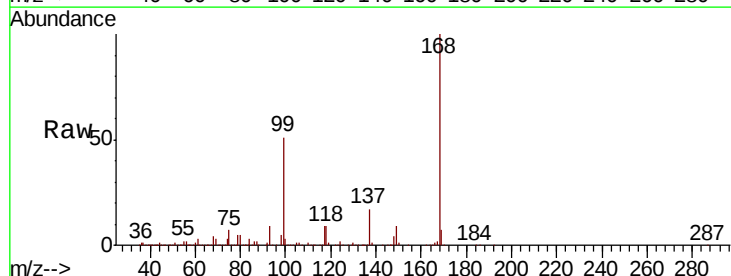
Tgt Ion: 75 Resp: 22794

Ion Ratio Lower Upper

75 100

110 10.1 17.8 53.3#

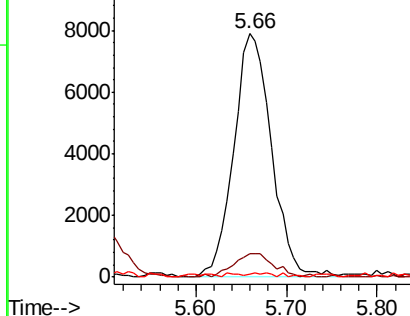
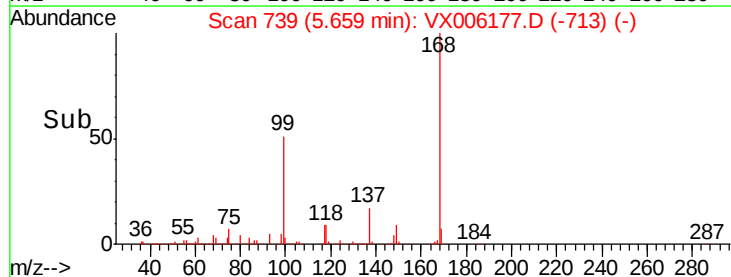
77 0.9 24.5 36.7#

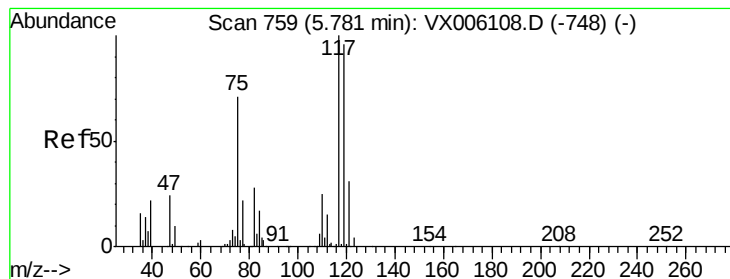


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.169 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampled :

AOC1-03R

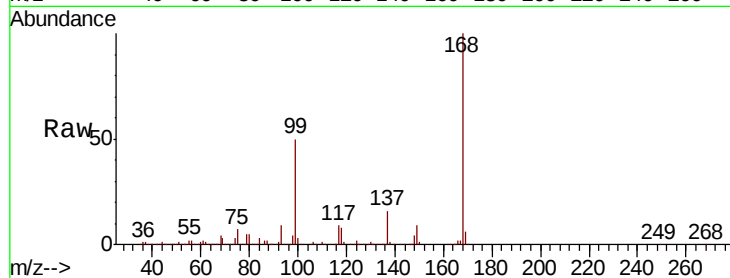
Tot Ion:117 Resp: 29617

Ion Ratio Lower Upper

117 100

119 6.0 76.3 114.5#

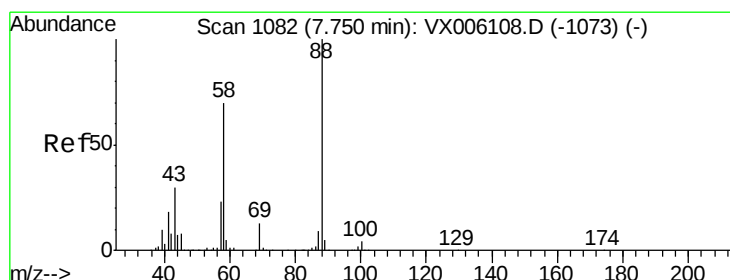
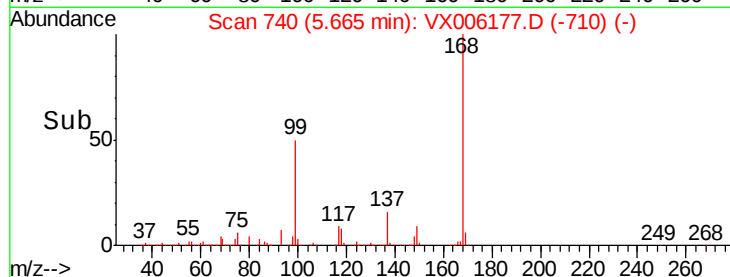
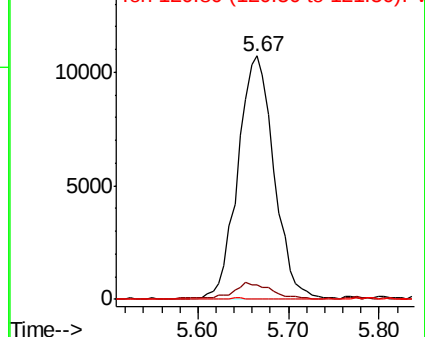
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.295 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

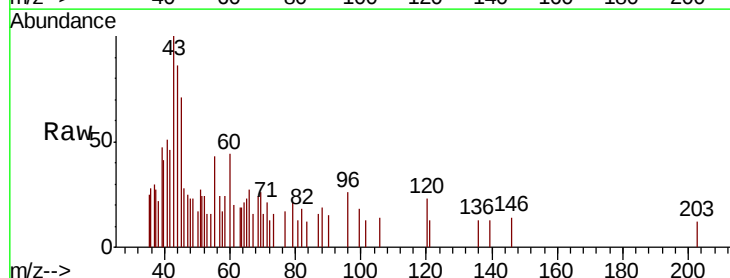
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 26.7 40.1#

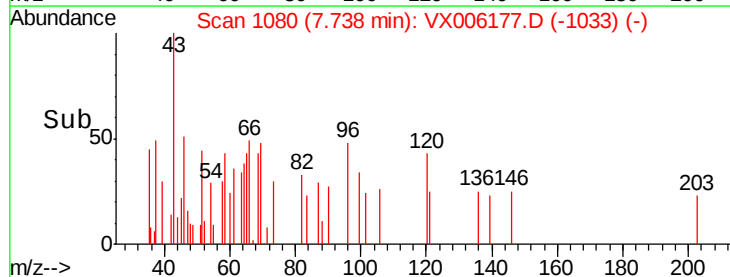
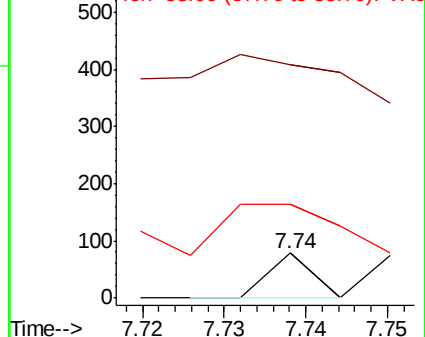
58 920.7 58.5 87.7#

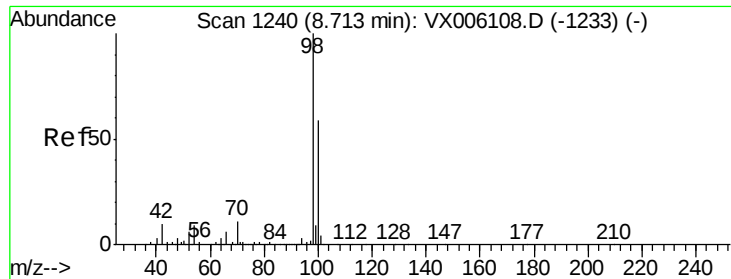


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.634 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

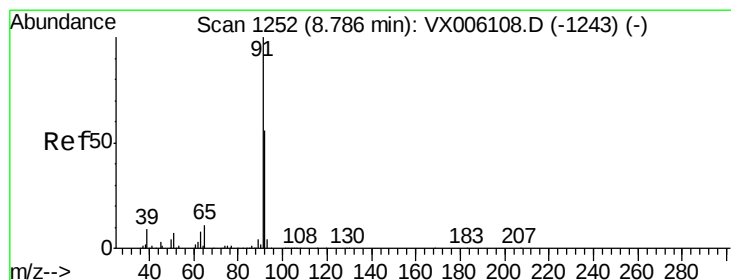
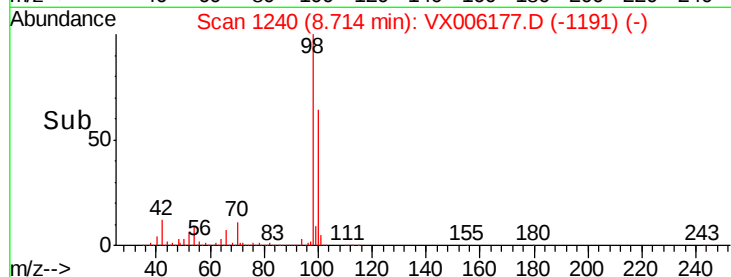
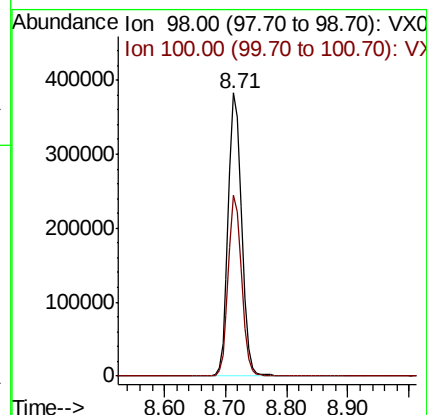
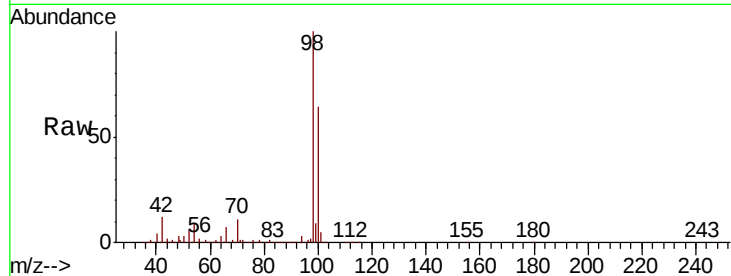
AOC1-03R

Tot Ion: 98 Resp: 587126

Ion Ratio Lower Upper

98 100

100 62.9 51.0 76.4



#52

Toluene

Concen: 0.329 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006177.D

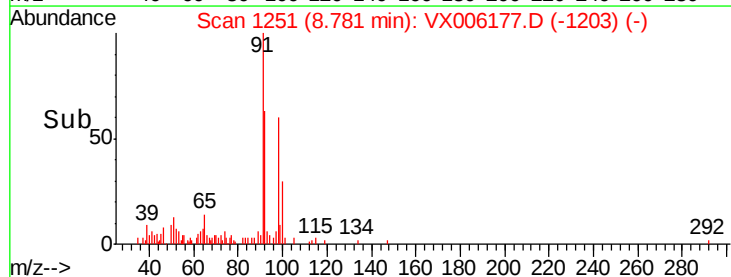
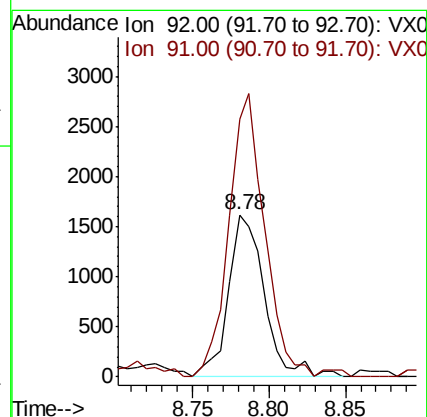
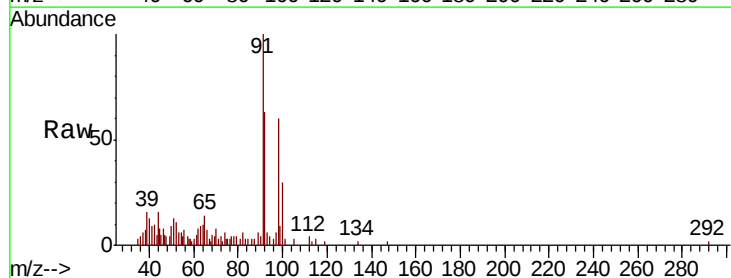
Acq: 26 Nov 2018 16:04

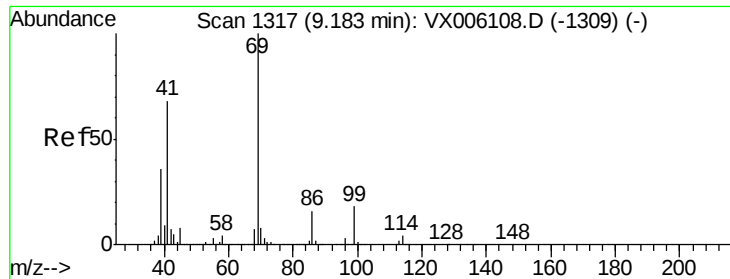
Tgt Ion: 92 Resp: 2633

Ion Ratio Lower Upper

92 100

91 173.4 142.5 213.7





#56

Ethyl methacrylate

Concen: 2.901 ug/l

RT: 9.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

AOC1-03R

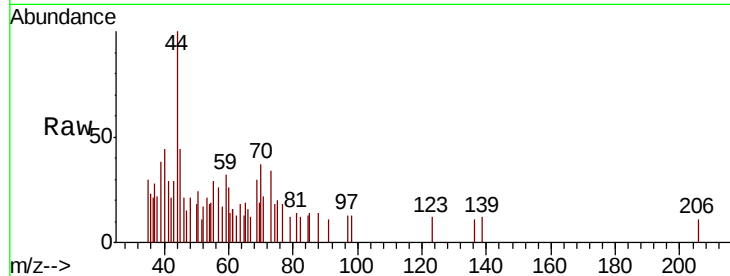
Tot Ion: 69 Resp: 206

Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.4#

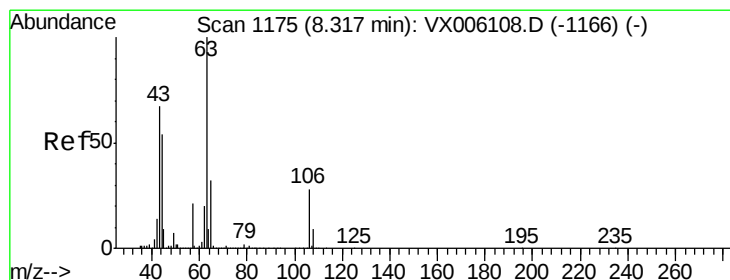
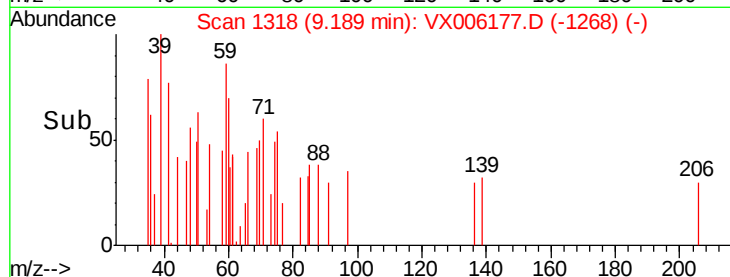
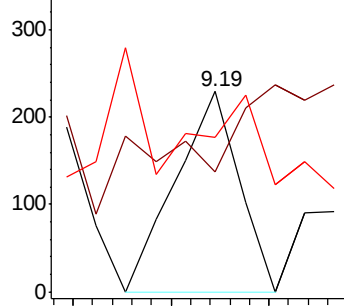
39 47.1 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 6.789 ug/l

RT: 8.33 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX006177.D

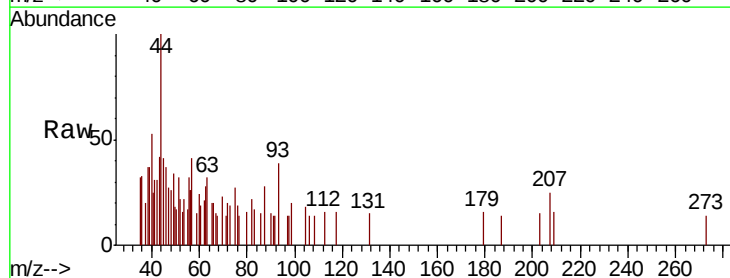
Acq: 26 Nov 2018 16:04

Tgt Ion: 63 Resp: 209

Ion Ratio Lower Upper

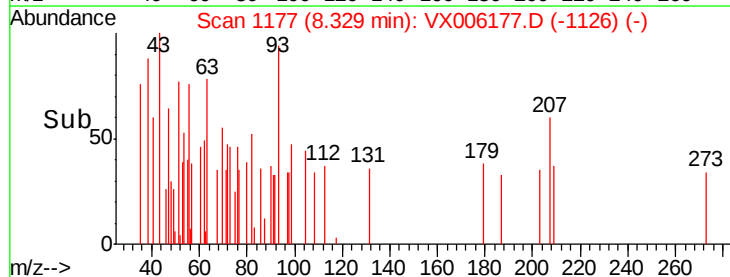
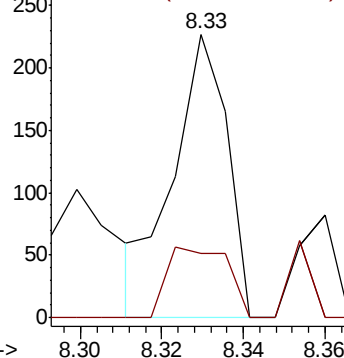
63 100

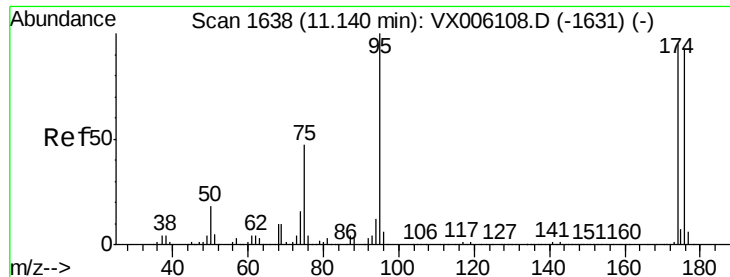
106 27.8 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 44.973 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

AOC1-03R

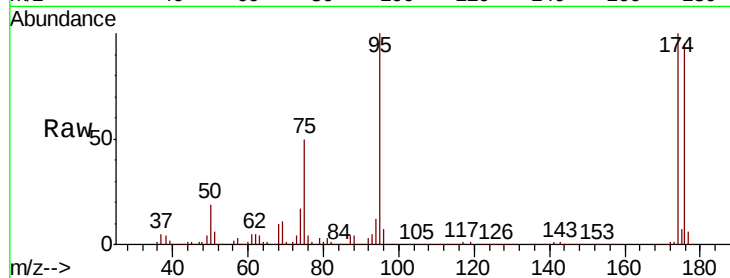
Tot Ion: 95 Resp: 199605

Ion Ratio Lower Upper

95 100

174 93.4 0.0 184.4

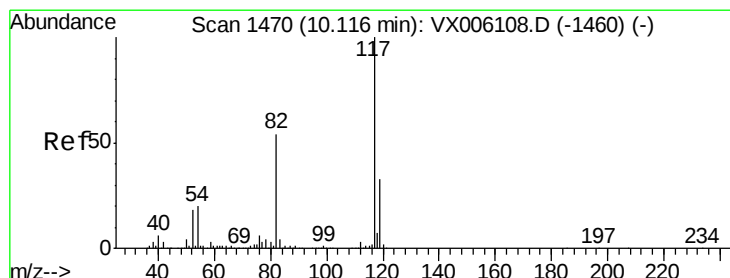
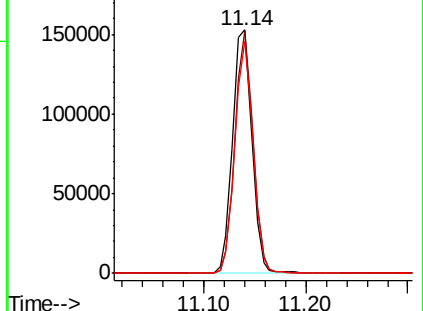
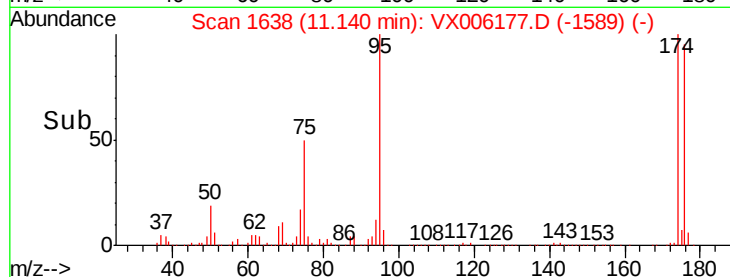
176 89.4 0.0 179.0



Abundance Ion 94.90 (94.60 to 95.60): VX006177.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006177.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006177.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

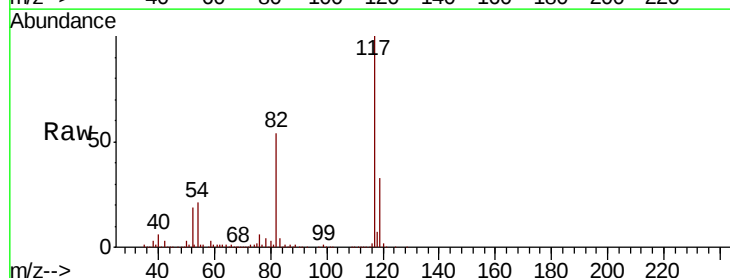
Tgt Ion: 117 Resp: 445040

Ion Ratio Lower Upper

117 100

82 53.5 43.0 64.4

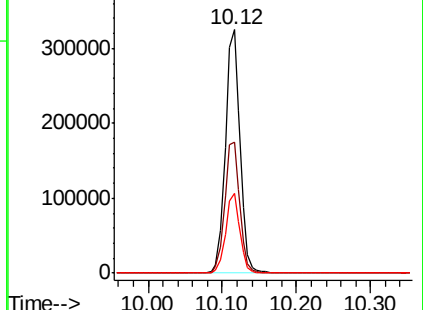
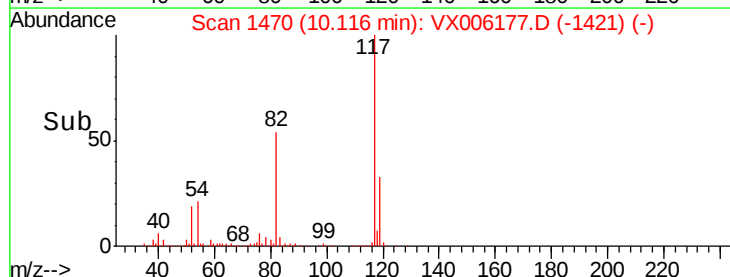
119 32.7 26.1 39.1

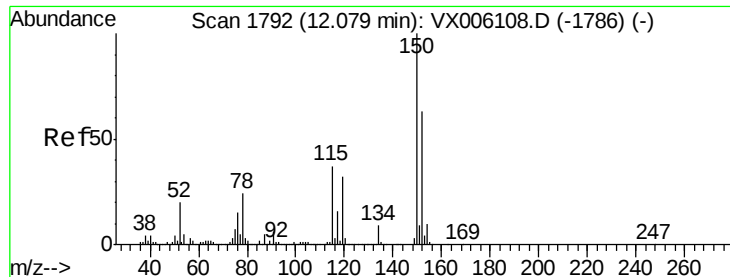


Abundance Ion 116.90 (116.60 to 117.60): VX006177.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006177.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006177.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

AOC1-03R

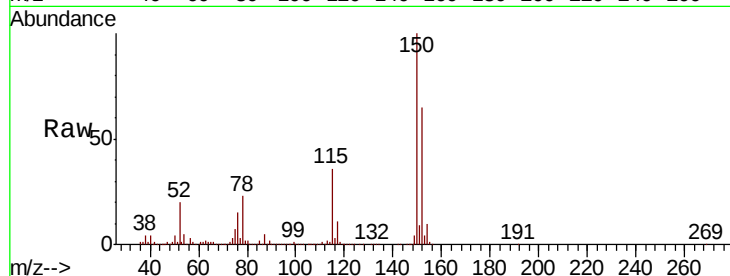
Tot Ion:152 Resp: 220776

Ion Ratio Lower Upper

152 100

115 55.3 39.0 116.9

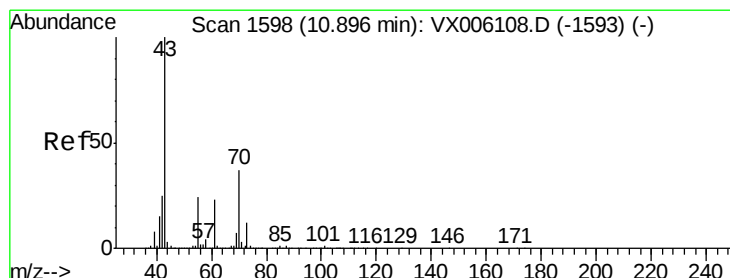
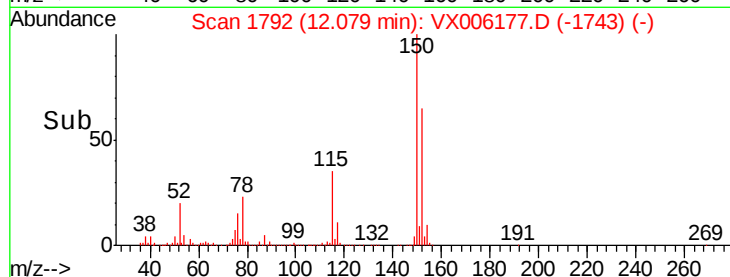
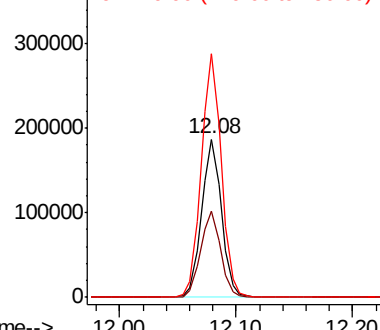
150 155.8 0.0 346.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.240 ug/l

RT: 10.89 min Scan# 1597

Delta R.T. -0.01 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Tgt Ion: 43 Resp: 337

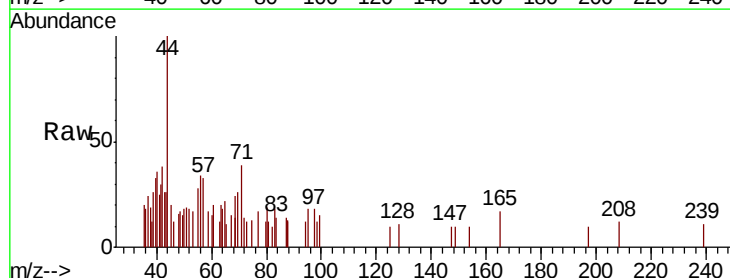
Ion Ratio Lower Upper

43 100

70 88.4 31.8 47.6#

55 41.5 19.5 29.3#

61 0.0 18.6 27.8#

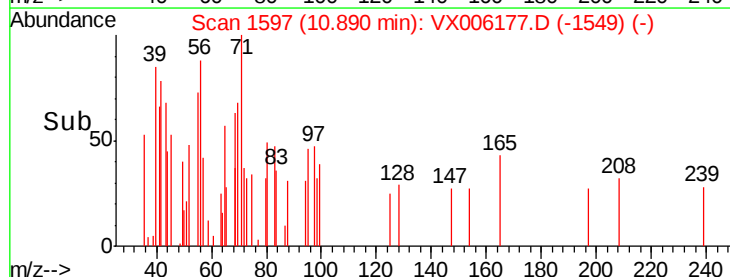
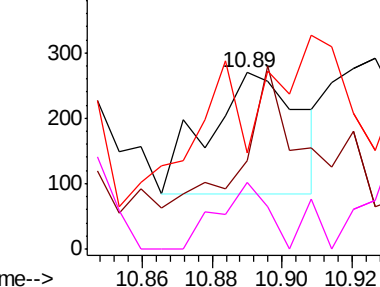


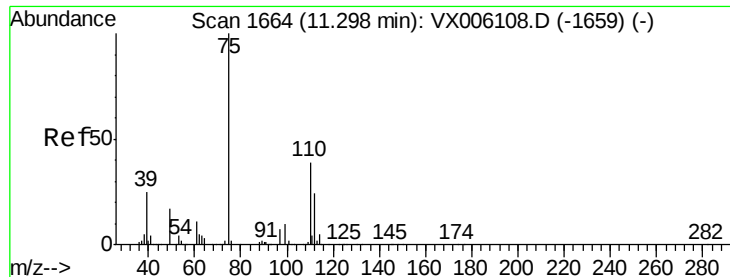
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.555 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

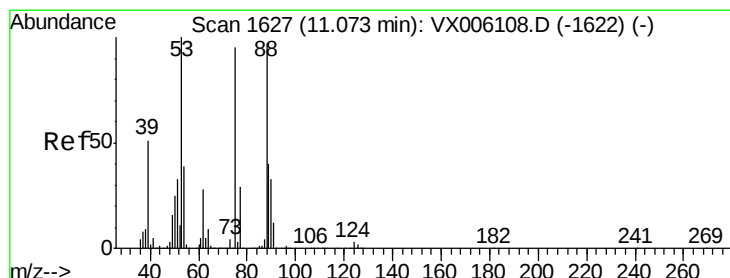
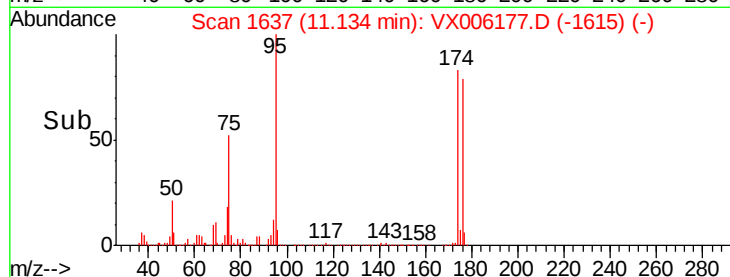
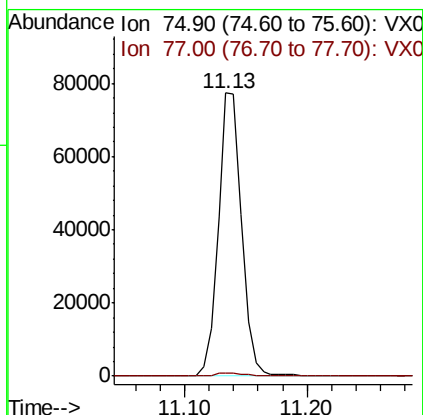
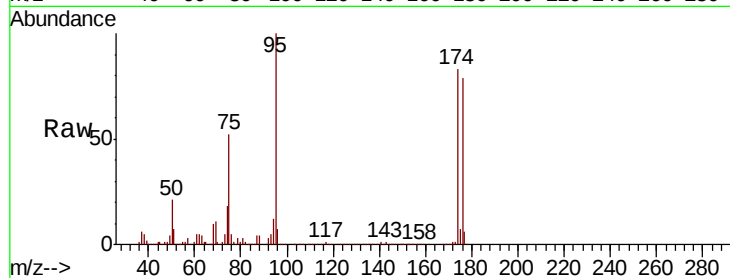
AOC1-03R

Tot Ion: 75 Resp: 102518

Ion Ratio Lower Upper

75 100

77 1.5 19.6 58.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.285 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

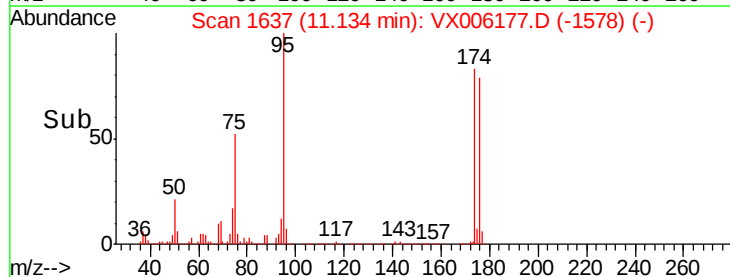
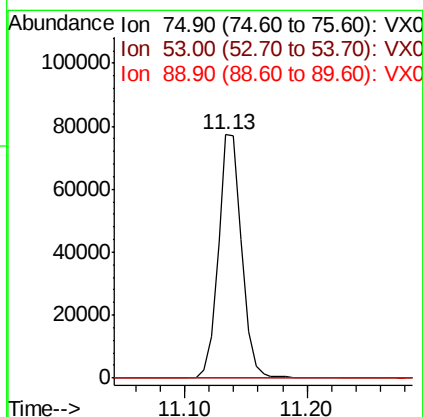
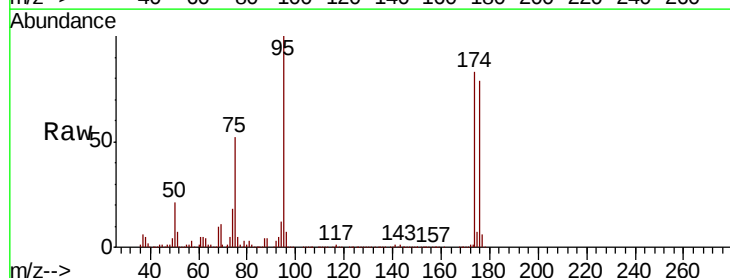
Tgt Ion: 75 Resp: 102518

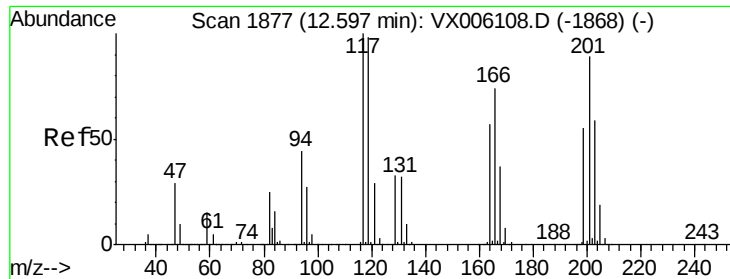
Ion Ratio Lower Upper

75 100

53 0.3 85.3 127.9#

89 0.0 37.2 55.8#





#90

Hexachloroethane

Concen: 0.447 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

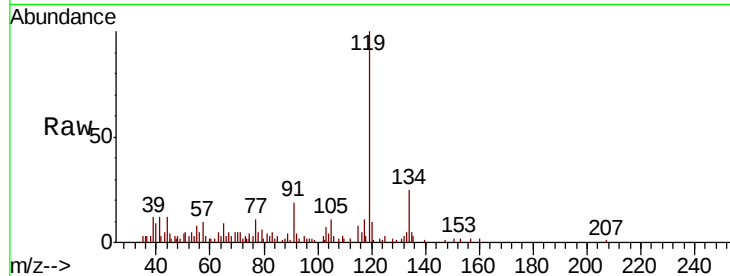
AOC1-03R

Tot Ion:117 Resp: 856

Ion Ratio Lower Upper

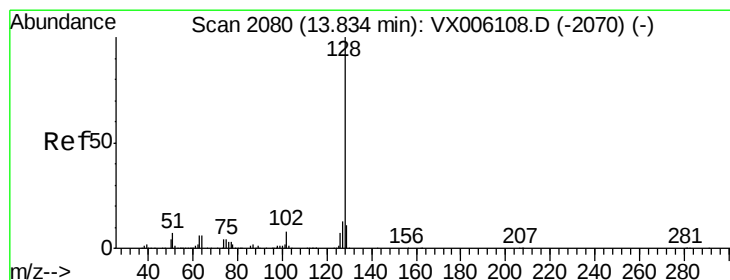
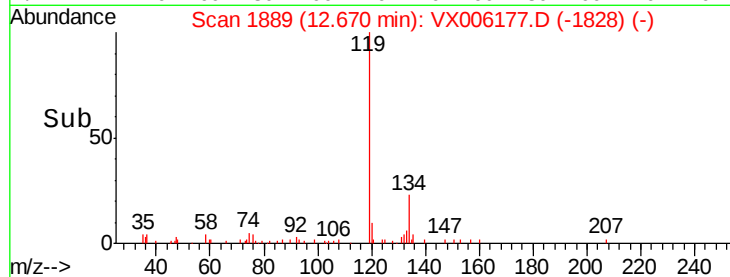
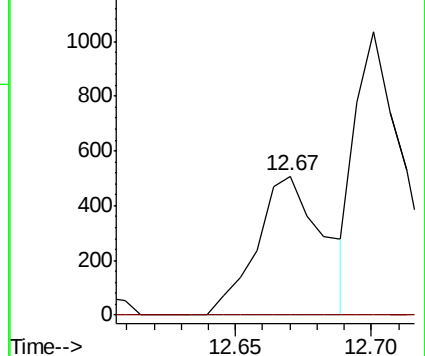
117 100

201 0.0 46.1 138.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.248 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006177.D

Acq: 26 Nov 2018 16:04

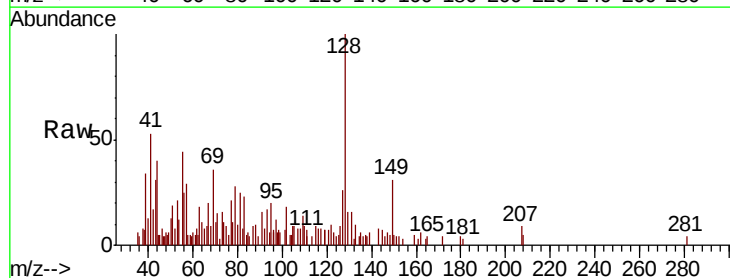
Tgt Ion:128 Resp: 3617

Ion Ratio Lower Upper

128 100

127 22.8 10.6 15.8#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

